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*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

July 13, 2004

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Art Unit 2184

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 10/767,729; Filed: January 30, 2004

Method Of Monitoring The Quality Of A Communications Channel

Inventors:

Proano et al.

Our Ref:

1875.5640000

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Original, executed Power of Attorney from Assignee;
- 2. Original, executed Statement under 37 CFR 3.73(b) with a copy of the Assignment attached; and
- 3. One return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey T. Helvey

Attorney for Applicants Registration No. 44,757

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POWER OF ATTORNEY FROM ASSIGNEE

Broadcom Corporation, a corporation of California, having a principal place of business at 16215 Alton Parkway, Irvine, California 92618-3616, is assignee of the entire right, title, and interest for the United States of America (as defined in 35 U.S.C. §100), by reason of an Assignment to the Assignee executed on (1) January 29, 2004, (2) January 29, 2004, (3) January 29, 2004, (4) January 29, 2004, (5) January 29, 2004, (6) January 29, 2004, and (7) January 29, 2004, of an invention known as Method Of Monitoring The Quality Of A Communications Channel (Attorney Docket No.1875.5640000), that is disclosed and claimed in a patent application of the same title by the inventors (1) Jay Proano, (2) Howard Baumer, (3) Chung-Jue Chen, (4) Ali Ghiasi, (5) Vasudevan Parthasarathy, (6) Rajesh Satapathy, and (7) Linda Ying, (said application filed on January 30, 2004 at the U.S. Patent and Trademark Office, having Application Number 10/767,729).

For the purpose of PAIR, the Customer Number is 26111.

The Assignee hereby appoint James D. Bennett, Registration No. 37,550, Jeffrey DeRoy Wheeler, Registration No. 39,066; Noel Benjamin Whitley, Registration No. 42,225; and Harry Shannon Tyson, Jr., Registration No. 42,193, of Broadcom Corporation, 16215 Alton Parkway, Irvine, CA 92618-3616, and the U.S. attorneys associated with CUSTOMER NUMBER 28393 to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: Robert Greene Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tracy-Gene G. Durkin, Esq., Registration No. 32,831; Michael A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Lawrence B. Bugaisky, Esq., Registration No. 35,086; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kirn, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987.. The Assignees hereby grant said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

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Direct phone calls to 202-371-2600.

FOR: Broadcom Corporation

SIGNATURE:_

— / Dee Henderson

ITTLE: Manager, Intellectual Property Portfolio

DATE:

BY:

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STATEMEN	NT UNDER 37 CFR 3.73(b)	1875.5640000
Applicant/Patent Owner: Proano et al.		
Application No./Patent No.: 10/767,729	Filed/Issue Date:)4
Entitled: Method Of Monitoring The Quality Of A Communications Channel		
Broadcom , a	a <u>corporation</u>	·
(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university,	government agency, etc.)
states that it is: 1. ☑ the assignee of the entire right, title, and interest; or		
2. an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is% in the patent application patent identified above by virtue of either:		
A. [x] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.		
OR		
B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:		
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3. From:	To:	
The document was recorded in the Pat Reel Frame	lent and Trademark Office at , or for which a copy thereof is attac	hed.
[] Additional documents in the chain of title are listed on a supplemental sheet.		
[X] Copies of assignments or other documents in the of [NOTE: A separate copy (i.e., the original assignments be submitted to Assignment Division in accordance recorded in the records of the PTO. See MPEP 30 The undersigned (whose title is supplied below) is authorized.	nent document or a true copy of the original document and the assignment is to 02.08]	
1011 7.2004	Dee Henderson	
Date	Typed or printed name	· · · · · · · · · · · · · · · · · · ·
(949) 926-5958	Valle	
Telephone number	Signature	
	Managel 19/01	18010

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

ASSIGNMENT

TO DO NOT FORWARD NOT FOR RECORDATION In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid each of the undersigned inventors: (1) Jay Proano, (2) Howard Baumer, (3) Chung-Jue Chen, (4) Ali Ghiasi, (5) Vasudevan Parthasarathy, (6) Rajesh Satapathy, and (7) Linda Ying, the undersigned inventors hereby sell and assign to Broadcom Corporation, a corporation formed under the laws of California (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as Method Of Munitoring The Quality Of A Communications Channel
for which application(s) for patent in the United States of America has (have) been executed by the undersigned on (1) 129/04; (2) 129/04(3) 129/04; (4) 25 25; (5) 129/04; (6) 129/04; and (7) 129/04 (also known as United States Application No. (to be assigned), filled), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
undersigned on (1) 1129/04; (2) 1/29/04; (3) 1/29/04; (4) 5 5 5 1/29/04;
(6) 1/29/04; and (7) 1/29/04 (also known as United States Application No. (to be assigned).
filed), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in particular, and that forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and per administrations of such patent application, including, without limitation, patents, applications, utility pacetts have nited acceptable to certificates, and designs together with the right to file applications therefor, and including the light to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any nonprovisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned,

The undersigned inventors hereby grant James D. Bennett, Registration No. 37,550, Jeffred DeRoy, Wheeler, Registration No. 39,066; Noel Benjamin Whitley, Registration No. 42,225; and Harry Shannon Tyson, Jin Registration No. 42,193, of Broadcom Corporation, 16215 Alton Parkway, Irvine, CA 92618-3616, and Robert Grene State B.A. Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 32,893; Trany, Gell No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Trany, Gell No. 30,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; On Annual States No. 36,013; Eric K. Steffe, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,013; Eric K. Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 32,893; Trapy, John No. 29,021; David K.S. Comwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Trapy, John No. 29,021; David K.S. Comwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 33,851; Michael B. Ray, P. C. Combala, Esq., Registration No. 33,851; Michael B. Ray, P. C. Registration No. 36,688; O. C. Registration No. 36,688; O. C. Registration No. 36,203; John M. Covert, Esq., Registration No. 35,239; Steven R. Ludwig, Bsq., Registration No. 36,203; John M. Covert, Esq., Combala, P. C. Registration No. 35,239; Steven R. Ludwig, Bsq., Registration No. 36,203; John M. Covert, Esq., Registration No. 36,688; O. C. Registration No. 36,203; John M. Covert, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 36,688; O. C. Registration No. 36,203; John M. Covert, Esq., Registration No. 36,688; O. C. Registration No. 36,688; O. C. Registration No. 36,203; John M. Covert, Esq., Registration No. 36,203; 35,086; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Washington, D.C. 20005-3934, power to insert in this assignment any further

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identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name. Date: Signature of Invento Signature of Inventor: Signature of Inventor. Signature of Inventor: Signature of Inventor: Vasudevan, Parthasarathy DO NOT FORWARD Signature of Inventor. OR RECORDATION 2004 Signature of Inventor. Linda Ying